



Patent  
Attorney's Docket No. 025219-342

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )

Florence MARCIACQ et al. )

Application No.: 09/914,221 )

Filed: August 22, 2001 )

For: Process for Manufacturing Morpholino-  
Nucleotides, and Use Thereof for the  
Analysis of and Labelling of Nucleic Acid  
Sequences )

Group Art Unit: 1623

Examiner: Patrick T. Lewis

Confirmation No.: 1827

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**FOURTH INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of the document cited is enclosed.

The document is being submitted after a first Office Action on the merits but prior to the closing of prosecution, therefore under 37 C.F.R. § 1.97(c), the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is enclosed.

To assist the Examiner, the document is listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

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Date: November 6, 2003

**Complete if Known**

(use as many sheets as necessary)

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## FOREIGN PATENT DOCUMENTS

Translation	
Yes	No

## NON-PATENT LITERATURE DOCUMENTS

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

LUDWIG, J., et al. "Rapid and Efficient Synthesis of Nucleoside 5'-O-(1-Thiotriphosphates), 5'-Triphosphates and 2', 3'-Cyclophosphorothioates Using 2-Chloro-4*H*-1,3,2-benzodioxaphosphorin-4-one" *J. Org. Chem.*, 54: 631-635 (1989)

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.